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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/822,272	04/02/2001	Yoshiro Kokuryo	500.39945PX1	8807
20457	7590 06/23/2004		EXAM	INER
	I, TERRY, STOUT & SEVENTEENTH STRI	WILLIAMS, LAWRENCE B		
SUITE 1800	SEVENTEENTH STRI	515.1	ART UNIT	PAPER NUMBER
ARLINGTON	i, VA 22209-9889		2634	
			DATE MAILED: 06/23/2004	. (

Please find below and/or attached an Office communication concerning this application or proceeding.

1

•	Application No.	Applicant(s)				
	09/822,272	KOKURYO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lawrence B Williams	2634				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl- If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>02 A</u>	pril 2001.					
	action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) 1-18 is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 02 April 2001 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	☐ accepted or b)☐ objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burea * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Art Unit: 2634

DETAILED ACTION

Drawings

- 1. The drawings are objected to because:
- a.) In Fig. 2, applicant has used the reference numerals 24, 26, 27 and 28 to designate multiple components of a tap updating unit (21). Even though the corresponding numerals represent the same type device, examiner suggests applicant use a method to denote that each device is in its own right a distinct device. Ex. For the delay units (28), examiner suggests applicant use 24a, 24b; 28a, 28b, etc.
- b.) In Fig. 3, applicant has used the reference numeral 202 to designate multiple components of an equalizer (20). Even though the corresponding numerals represent the same type device, examiner suggests applicant use a method to denote that each device is in its own right a distinct device. Ex: Examiner suggests the use of 202a, 202b.
- c.) Examiner suggests applicant apply the suggested method for reference numerals with respect to Figs. 4, 5, 6, and 7.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The

Application/Control Number: 09/822,272

Art Unit: 2634

replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR

Page 3

1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted

by the examiner, the applicant will be notified and informed of any required corrective action in

the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities: On page 1,

applicant's first paragraph "Cross-Reference To Related Application" is incomplete.

Appropriate correction is required.

3. The specification has not been checked to the extent necessary to determine the presence

of all possible minor errors. Applicant's cooperation is requested in correcting any errors of

which applicant may become aware in the specification.

Allowable Subject Matter

4. Claims 1-18 are allowed.

5. The following is a statement of reasons for the indication of allowable subject matter:

The instant application discloses a demodulation circuit for demodulating a multilevel digital

modulation signal. Prior records fail to disclose a demodulation circuit comprising "a training

signal generator for outputting an either one of an in-phase component and a quadrature

Application/Control Number: 09/822,272

Art Unit: 2634

component signals of a training signal, the other one of which is zero..." along with the remaining limitations of independent claims 1 and 10.

Conclusion

- 6. This application is in condition for allowance except for the following formal matters:
 - a.) Specification objections as noted above.
 - b.) Drawing objections as noted above...

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 703-305-6969. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/822,272

Art Unit: 2634

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 5

Lawrence B. Williams

lbw

June 17, 2004

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